IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A non-transitory information recording medium storing encrypted content, comprising:

a first recording area including content and an entity code that is set for each entity included in a manufacturing route of said information recording medium, wherein the first recording area includes an encryption processing unit that is encrypted by a key generated based on a seed that provides encryption processing key generating information for each encryption processing unit, wherein said entity code is stored in an encrypted area that is encrypted by said key generated based on said seed, said encrypted area not overlapping an area in which said seed is recorded, wherein said entity code includes an authoring studio code identifying an authoring studio and a disc manufacturer code identifying a manufacturer; and

a lead-in area including an encrypted copy of the authoring studio code and an encrypted copy of the disc manufacturing code, wherein during reproduction control processing, the encrypted copy of the authoring studio code and the encrypted copy of the disc manufacturing code are decrypted and compared to the authoring studio code and the disc manufacturer code included in the first recording area.

2. (Previously Presented) The information recording medium according to claim 1, wherein said encryption processing unit is set as a collective data area including a plurality of packets, and said seed is set as data having a predetermined number of bits from start data of a start packet of said encryption processing unit; and

said entity code is stored as a payload of each of said plurality of packets and stored in a data area not overlapping an area of bits constituting said seed.

3. (Original) The information recording medium according to claim 1, wherein said entity code is stored in a program map table (PMT) specified by the MPEG standard and said entity code provides data constituting a start packet of a plurality of divided packets storing said program map table (PMT) in a program information area of said program map table (PMT).

4. (Original) The information recording medium according to claim 3, wherein said start packet of said plurality of divided packets is a transport stream packet having a payload of 183 bytes and said entity code is stored as data within 183 bytes from start data of said program map table (PMT) in said program information area of said program map table (PMT).

5. (Previously Presented) The information recording medium according to claim 1, wherein said entity code is stored in a program map table (PMT) specified by the MPEG standard; and

said program map table (PMT) is stored as a payload of each of a plurality of transport stream packets in a divided manner, and each of said plurality of transport stream packets is attached with timestamp information to be stored in said information recording medium as a source packet in a distributed manner.

6. (Previously Presented) The information recording medium according to claim 1, wherein said information recording medium includes (1) a first seed, which is key generating

information set for said encryption processing unit, (2) an encrypted second seed, which is key generating information encrypted based on a first block key generated by said first seed, and (3) encrypted content and an encrypted entity code encrypted based on a second block key generated based on said second seed.

7. (Canceled)

8. (Currently Amended) A data processing method for generating data to be written to an information recording medium, comprising:

setting a position at which an entity code for an entity included in a manufacturing route of said information recording medium is to be recorded and setting said entity code in a program map table, wherein said setting step includes executing control such that said entity code is included in an encrypted area encrypted by a key generated based on said seed, without overlapping an area in which said seed is set, wherein said entity code includes an authoring studio code identifying an authoring studio and disc manufacturer code identifying a manufacturer;

generating a plurality of packets in which said program map table is stored in a divided manner;

arranging said plurality of packets in a content stored packet sequence in a distributed manner; [[and]]

encrypting data included in an encryption processing unit by use of a key generated based on a seed, which is encryption processing key generating information that is set for said encryption processing unit[[,]]; and

~~wherein said setting step includes executing control such that said entity code is included in an encrypted area encrypted by a key generated based on said seed, without~~

~~overlapping an area in which said seed is set, wherein said entity code includes an authoring studio code identifying an authoring studio and disc manufacturer code identifying a manufacturer~~

encrypting the authoring studio code and the disc manufacturer code using a same title key, for recording in a lead-in area of the information recording medium.

9. (Previously Presented) The data processing method according to claim 8, wherein said encryption processing unit is a collective data area of a plurality of packets, said seed is data having a predetermined number of bits from start data of a start packet of said encryption processing unit; and

said setting step includes setting said entity code to a data area that does not overlap an area of bits constituting said seed.

10. (Previously Presented) The data processing method according to claim 8, wherein said setting step comprises setting said entity code in a program information area of said program map table (PMT) specified by the MPEG standard and to a position of data constituting a start packet of a plurality of divided packets storing said program map table (PMT).

11. (Previously Presented) The information processing method according to claim 10, wherein said start packet of said plurality of divided packets is a transport stream packet having a payload of 183 bytes; and

said setting step comprises setting said entity code as data in said program information area of said program map table (PMT) and within 183 bytes from start data of said program map table (PMT).

12. (Currently Amended) A non-transitory computer readable storage medium storing a program that when executed by a computer causes the computer to execute a method of generating data to be written to an information recording medium, comprising:

setting a position at which an entity code for an entity included in a manufacturing route of said information recording medium is to be recorded and setting said entity code in a program map table, wherein said setting step includes executing control such that said entity code is included in an encrypted area encrypted by a key generated based on said seed without overlapping an area in which said seed is set, wherein said entity code includes an authoring studio code identifying an authoring studio and a disc manufacturer code identifying a manufacturer;

generating a plurality of packets in which said program map table is stored in a divided manner;

arranging said plurality of packets in a content stored packet sequence in a distributed manner; [[and]]

encrypting data included in an encryption processing unit by use of a key generated based on a seed, which is encryption processing key generating information that is set for said encryption processing unit[[,]]; and

~~wherein said setting step includes executing control such that said entity code is included in an encrypted area encrypted by a key generated based on said seed without overlapping an area in which said seed is set, wherein said entity code includes an authoring studio code identifying an authoring studio and a disc manufacturer code identifying a manufacturer~~

encrypting the authoring studio code and the disc manufacturer code using a same title key, for recording in a lead-in area of the information recording medium.